

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478220

Luminaire Tested: **IFLD-L-SA7A-750-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478220  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

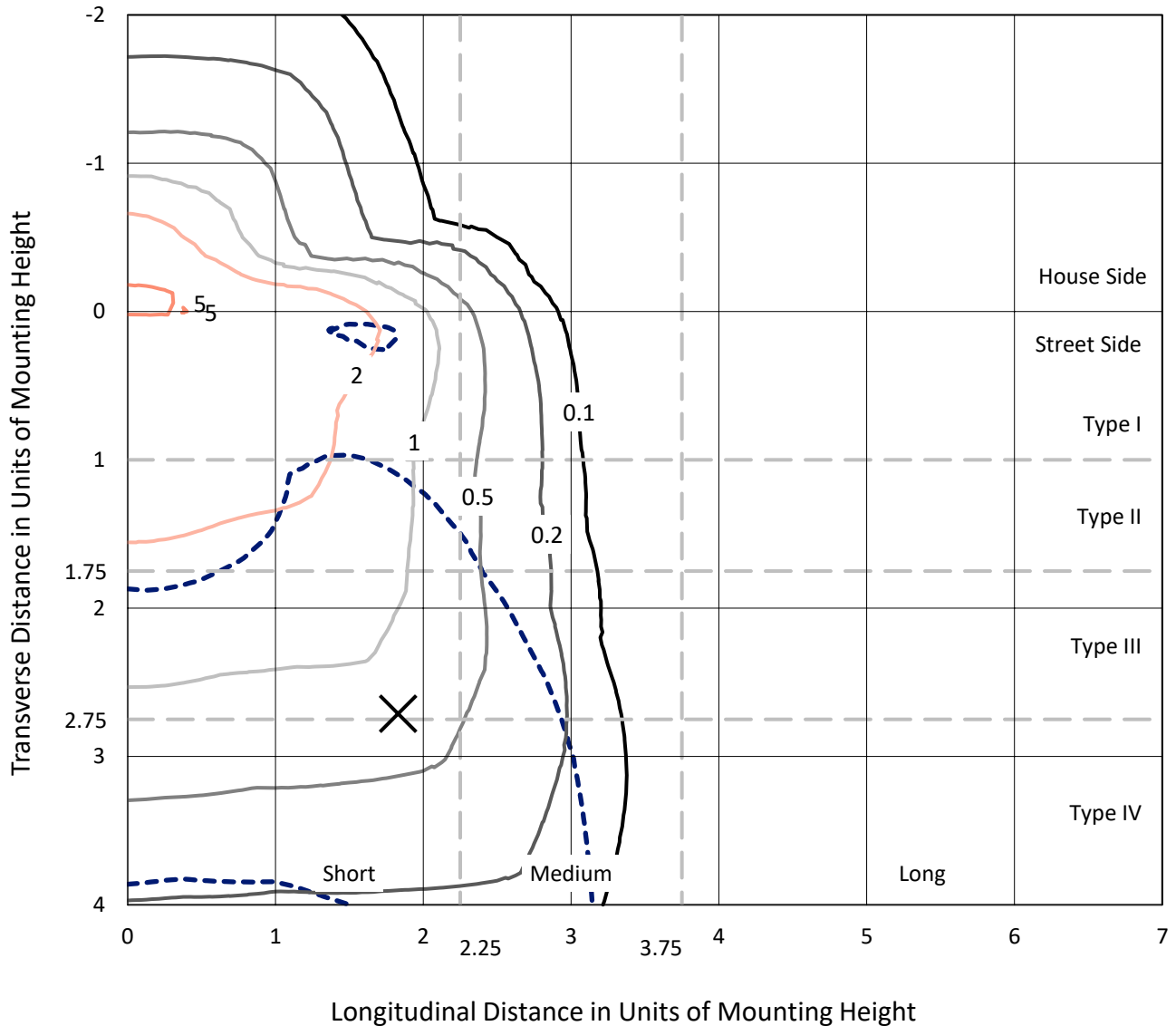
Lumens per Lamp: N/A  
Luminaire Lumens: 32801.5 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

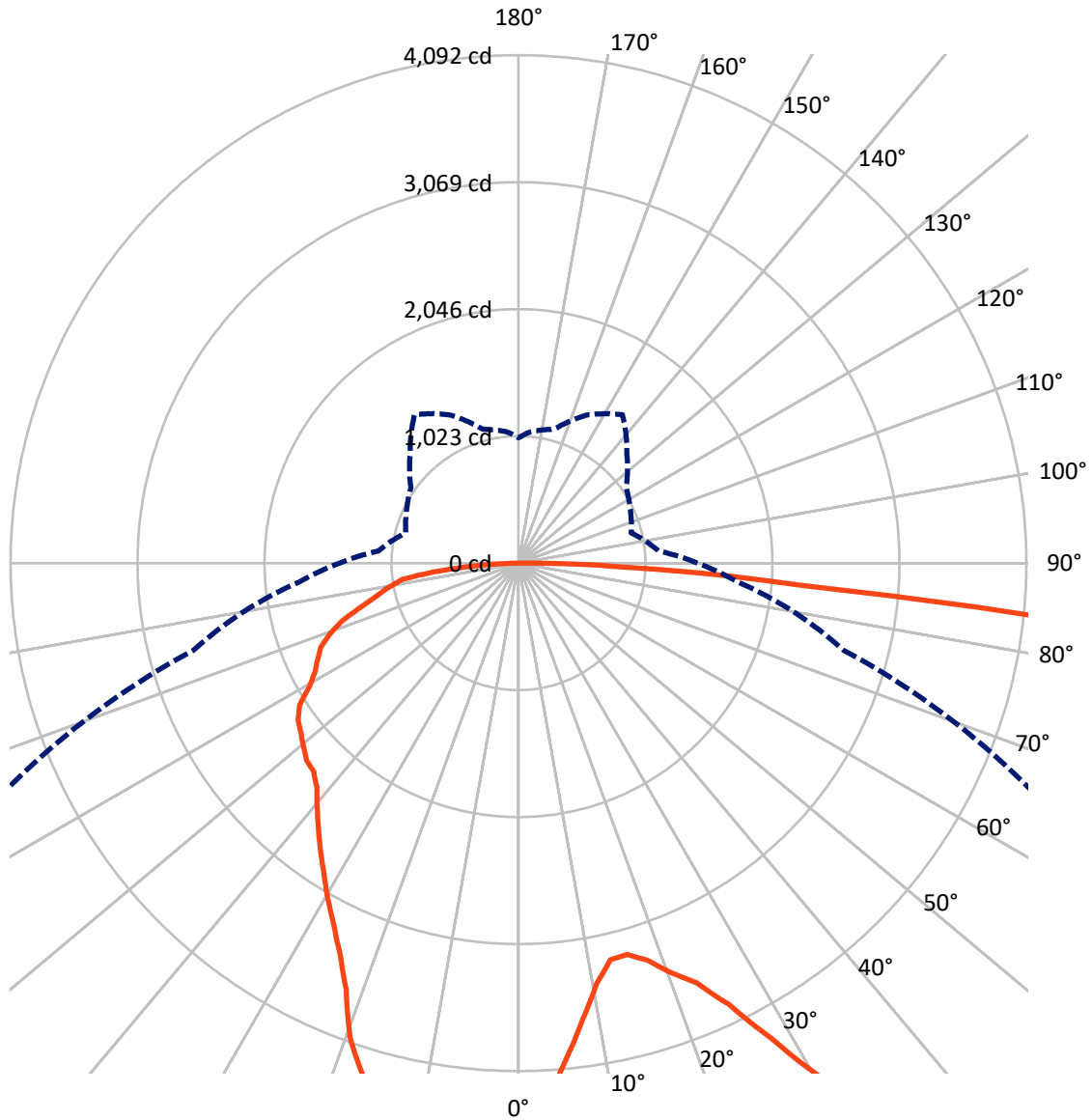
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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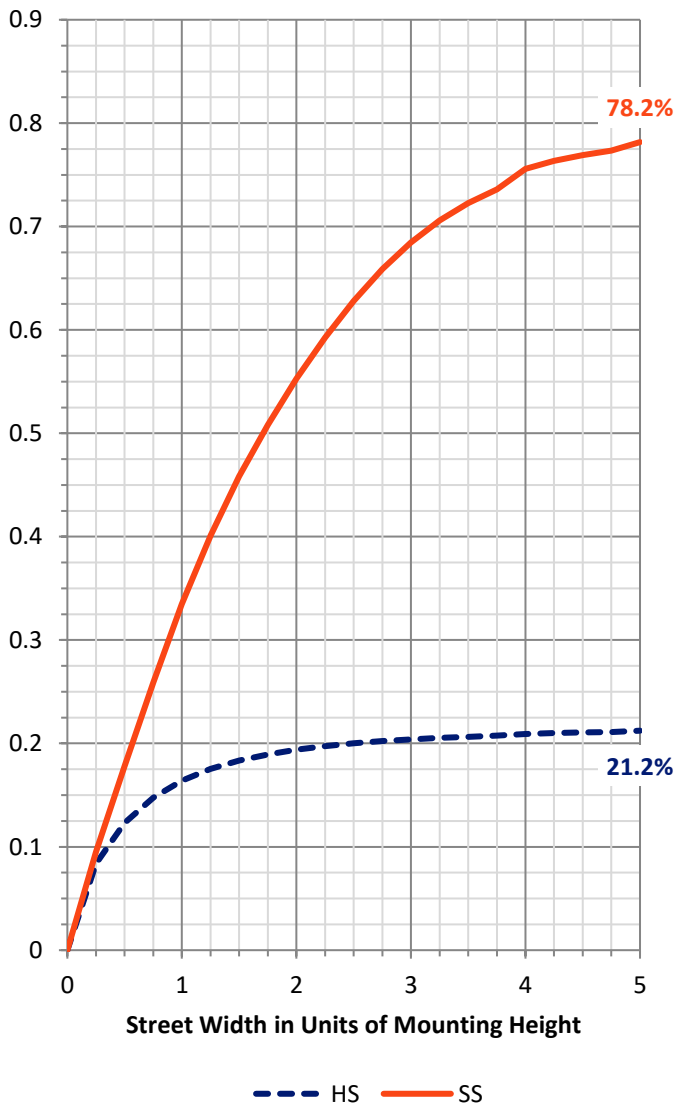
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7085.5	0.0	7085.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	25715.9	0.0	25715.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	32801.5	0.0	32801.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.0	1.3
10°-20°	1214.7	3.7
20°-30°	1999.2	6.1
30°-40°	2989.7	9.1
40°-50°	4432.1	13.5
50°-60°	6387.2	19.5
60°-70°	8150.9	24.8
70°-80°	6342.8	19.3
80°-90°	850.9	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32801.5	100.0
0°-180°	32801.5	100.0



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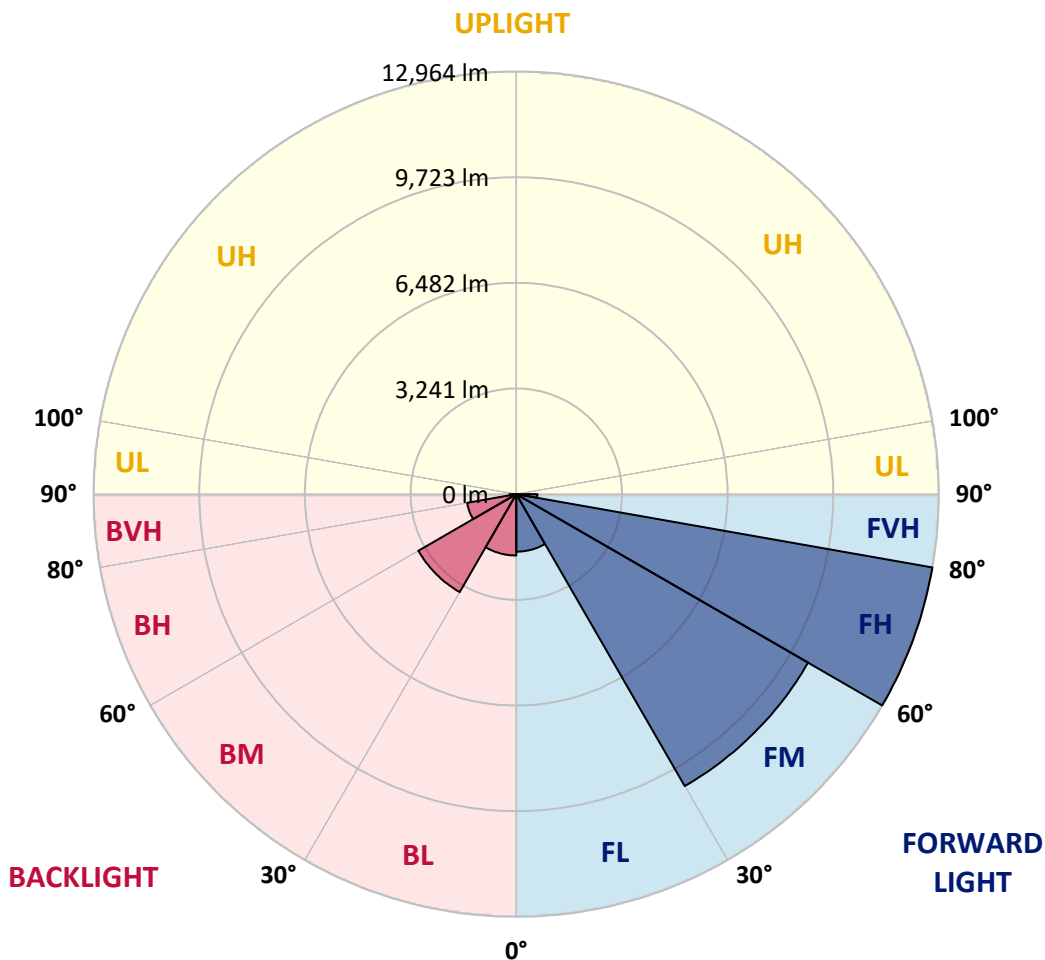
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.3	5.4			
FM (30°-60°)	10339.2	31.5			
FH (60°-80°)	12963.7	39.5			G5
FVH (80°-90°)	647.7	2.0			G4/750
BL (0°-30°)	1882.6	5.7	B3/2500		
BM (30°-60°)	3469.8	10.6	B3/5000		
BH (60°-80°)	1529.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	203.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6
2.5°	4213.6	4227.5	4272.6	4283.0	4331.5	4303.8	4362.7	4466.8	4525.7	4612.4	4716.5
5°	3880.7	3821.7	3849.5	3957.0	4012.5	4026.3	4088.8	4265.6	4376.6	4504.9	4699.1
7.5°	3488.8	3478.4	3533.9	3603.2	3714.2	3724.6	3863.3	4019.4	4248.3	4532.7	4761.6
10°	3221.8	3266.9	3298.1	3370.9	3447.2	3447.2	3624.1	3894.6	4154.7	4428.6	4775.4
12.5°	3207.9	3180.2	3187.1	3225.2	3280.7	3350.1	3516.5	3759.3	4088.8	4407.8	4834.4
15°	3253.0	3263.4	3201.0	3249.5	3270.3	3294.6	3478.4	3752.4	4047.2	4480.7	4935.0
17.5°	3492.3	3433.3	3336.2	3291.1	3364.0	3364.0	3488.8	3703.8	4054.1	4518.8	5080.6
20°	3679.5	3679.5	3520.0	3471.5	3523.5	3513.1	3599.8	3759.3	4088.8	4595.1	5243.6
22.5°	3995.1	4040.2	3776.6	3676.1	3672.6	3700.4	3776.6	3911.9	4185.9	4702.6	5399.7
25°	4449.4	4459.8	4154.7	4050.6	3939.6	3984.7	3998.6	4133.9	4272.6	4827.5	5576.5
27.5°	4955.8	4948.8	4667.9	4407.8	4335.0	4345.4	4269.1	4359.3	4400.9	4865.6	5829.7
30°	5517.6	5455.2	5243.6	4876.0	4817.0	4751.2	4584.7	4581.2	4667.9	5080.6	6180.0
32.5°	5885.2	5805.4	5659.8	5396.2	5233.2	5240.1	4976.6	4973.1	4896.8	5316.4	6485.2
35°	6245.9	6124.5	6086.3	5815.8	5652.8	5670.2	5458.6	5430.9	5292.2	5673.6	6988.0
37.5°	6679.4	6571.9	6630.8	6426.2	6225.1	6141.8	6044.7	6010.0	5829.7	6176.5	7674.7
40°	7157.9	7123.3	7085.1	6984.5	6863.2	6870.1	6766.1	6731.4	6464.3	6783.4	8333.6
42.5°	7803.0	7671.2	7473.5	7539.4	7601.8	7667.7	7633.1	7542.9	7265.5	7400.7	9068.8
45°	8403.0	8229.6	7865.4	7886.2	8142.9	8194.9	8614.5	8604.1	8045.8	8184.5	9904.6
47.5°	8808.7	8728.9	8510.5	8486.2	8853.8	8850.3	9606.4	9606.4	8867.7	8964.8	10802.8
50°	9412.1	9204.1	9110.4	9231.8	9419.1	9547.4	10619.0	10684.9	9675.7	9779.8	11978.5
52.5°	10119.6	9859.5	9623.7	9935.8	10268.7	10352.0	11621.3	11593.5	10296.5	10726.5	13355.3
55°	10705.7	10573.9	10410.9	10591.3	11135.7	11239.8	12627.0	12370.3	10917.3	11510.3	14017.6
57.5°	11388.9	11468.7	11503.3	11458.3	12106.8	12269.8	13774.9	13039.7	11451.3	12037.4	14406.1
60°	12418.9	12467.4	12512.5	12620.0	13306.7	13535.6	14683.5	13878.9	11787.7	12342.6	14437.3
62.5°	13986.4	13799.2	13899.7	14270.8	14822.2	15082.3	16022.1	14468.5	12044.4	12526.4	13417.7
65°	15779.4	15526.2	15422.2	15900.8	17329.6	17121.5	17693.7	14908.9	11673.3	11839.7	11378.5
67.5°	17596.6	17624.4	17357.3	18318.0	20069.3	20069.3	19247.4	15120.5	10667.6	9595.9	7979.9
70°	19039.3	19126.0	19271.7	21134.0	23908.4	24328.0	21172.1	14253.5	8618.0	6388.0	4362.7
72.5°	19018.5	18758.4	19504.0	22933.9	27397.2	27046.9	21574.4	11271.0	5378.9	3128.1	2001.0
73°	18591.9	18373.4	19188.4	22916.5	27539.4	27209.9	21279.6	10390.1	4744.2	2712.0	1779.1
75°	15182.9	14787.5	16174.7	20756.0	25479.4	25732.5	18078.7	6776.5	2601.0	1671.6	1251.9
77.5°	6922.1	7095.5	8902.3	13924.0	19635.8	19934.0	11884.8	2930.5	1425.3	1172.2	922.5
80°	2223.0	2334.0	3464.5	6922.1	12307.9	12845.5	5493.3	1331.7	1016.1	898.2	690.1
82.5°	849.7	846.2	1453.1	2878.4	5833.2	6176.5	2008.0	811.5	756.0	662.4	489.0
85°	298.2	312.1	547.9	1137.5	2295.8	2403.3	697.1	450.8	523.7	443.9	280.9
87.5°	104.0	107.5	194.2	412.7	790.7	835.8	194.2	180.3	260.1	256.6	142.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6	4702.6
2.5°	4751.2	4782.4	4792.8	4917.6	4917.6	4917.6	4966.2	4966.2	4952.3	4917.6	5000.9
5°	4772.0	4827.5	4935.0	5042.5	5070.2	5094.5	5160.4	5104.9	5125.7	5091.0	5122.2
7.5°	4830.9	4907.2	5108.4	5174.3	5129.2	5181.2	5111.8	5073.7	5035.5	5049.4	5000.9
10°	4931.5	5028.6	5122.2	5243.6	5156.9	5104.9	4962.7	4928.0	4806.6	4765.0	4803.2
12.5°	5056.3	5174.3	5333.8	5288.7	5122.2	4973.1	4820.5	4674.9	4602.0	4498.0	4525.7
15°	5181.2	5316.4	5340.7	5264.4	5056.3	4869.1	4591.6	4387.0	4314.2	4220.6	4269.1
17.5°	5316.4	5444.8	5403.1	5205.5	4924.6	4640.2	4324.6	4123.4	3970.9	3911.9	3911.9
20°	5517.6	5580.0	5514.1	5108.4	4765.0	4390.5	4085.3	3856.4	3703.8	3679.5	3641.4
22.5°	5673.6	5774.2	5479.4	4966.2	4532.7	4064.5	3714.2	3627.5	3582.4	3544.3	3495.7
25°	5874.8	5871.3	5417.0	4834.4	4133.9	3676.1	3464.5	3457.6	3436.8	3422.9	3488.8
27.5°	6065.5	5985.8	5344.2	4508.4	3721.2	3381.3	3266.9	3343.1	3374.4	3353.6	3381.3
30°	6367.2	6235.5	5240.1	4161.6	3357.0	3083.0	3103.9	3207.9	3259.9	3291.1	3249.5
32.5°	6686.3	6485.2	5025.1	3800.9	3034.5	2895.8	2944.3	3051.8	3114.3	3148.9	3187.1
35°	7147.5	6679.4	4806.6	3329.3	2802.1	2781.3	2809.1	2868.0	2958.2	2982.5	2992.9
37.5°	7716.3	6974.1	4511.9	2951.3	2621.8	2646.1	2673.8	2694.6	2698.1	2743.2	2725.8
40°	8285.0	7223.8	4081.8	2590.6	2434.5	2566.3	2552.4	2514.3	2483.1	2441.5	2431.1
42.5°	8784.4	7442.3	3603.2	2285.4	2268.1	2483.1	2438.0	2340.9	2268.1	2236.9	2184.8
45°	9346.3	7751.0	3121.2	2094.7	2139.8	2382.5	2368.6	2219.5	2125.9	2014.9	2001.0
47.5°	10074.5	8073.5	2660.0	1897.0	2018.4	2344.4	2351.3	2160.6	2025.3	1876.2	1855.4
50°	11007.4	8538.2	2309.7	1813.8	1945.5	2288.9	2299.3	2080.8	1903.9	1751.3	1737.5
52.5°	11902.2	9013.3	2018.4	1685.4	1897.0	2223.0	2247.3	2008.0	1803.4	1612.6	1623.0
55°	12353.0	8839.9	1768.7	1591.8	1786.0	2115.5	2205.6	1956.0	1650.8	1519.0	1515.5
57.5°	12453.6	8413.4	1571.0	1494.7	1692.4	2001.0	2136.3	1799.9	1581.4	1470.4	1456.6
60°	12124.1	7667.7	1414.9	1390.7	1574.5	1883.1	1976.8	1716.7	1512.0	1421.9	1401.1
62.5°	11312.6	6894.4	1307.4	1342.1	1473.9	1754.8	1876.2	1657.7	1446.2	1383.7	1338.6
65°	9276.9	5670.2	1220.7	1248.5	1369.9	1630.0	1813.8	1591.8	1387.2	1328.2	1324.8
67.5°	6426.2	3908.4	1151.4	1203.4	1286.6	1539.8	1751.3	1519.0	1310.9	1290.1	1262.4
70°	3291.1	2084.3	1061.2	1102.8	1196.5	1425.3	1640.4	1442.7	1231.1	1227.7	1193.0
72.5°	1668.1	1220.7	957.2	1019.6	1085.5	1276.2	1501.6	1342.1	1130.6	1092.4	1036.9
73°	1442.7	1130.6	939.8	995.3	1057.7	1234.6	1460.0	1317.8	1116.7	1061.2	1009.2
75°	1050.8	891.3	842.7	898.2	946.8	1113.2	1321.3	1206.9	1026.5	967.6	919.0
77.5°	787.2	686.7	700.5	763.0	804.6	960.6	1175.7	1092.4	929.4	849.7	828.9
80°	579.2	523.7	579.2	638.1	669.3	846.2	1071.6	946.8	783.8	693.6	676.3
82.5°	412.7	381.5	447.4	485.5	499.4	700.5	964.1	756.0	593.0	475.1	437.0
85°	235.8	232.4	301.7	298.2	308.7	409.2	634.6	502.9	381.5	291.3	284.4
87.5°	104.0	114.4	152.6	121.4	128.3	194.2	270.5	187.3	156.1	86.7	65.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)